Applicant: Jacob et al. Application No.: 10/538,864

## IN THE CLAIMS

- 1. (Currently amended) Nozzle for spraying liquid substances, dispersions, emulsions, or suspensions for food and chemical industries, for use in fluidized-bed granulating systems, comprising the following:
- the nozzle includes a cylindrical nozzle body and a nozzle mouth piece,
- the nozzle body includes a centrally arranged inner tube and an outer tube spaced apart from the inner tube,
- the inner tube is connected to a <u>liquid</u>, <u>dispersion</u>, <u>emulsion</u>, <u>or suspension</u> supply for a substance to be sprayed,
- the outer tube is connected to [[a]] an atomizing gas or to a carrier-gas supply-for
  an atomizing gas or to a carrier-gas stream and forms a lance base in a bottom
  region, and

the inner tube (3) is mounted in a receiving block (11), which is detachably attached in a tube (10) arranged in a fixed manner on a lower region of the lance base (9) with the inner tube (3) and any add-on parts (6) attached to the inner tube being easily dis-assemblable from and re-assembleable with the tube (10) for required cleaning of the nozzle, and an attachment device (8), which connects the nozzle detachably to a processing housing (15) of the fluidized-bed granulating system, the attachment device (8) being a milk-tube union nut (7) or a tri-clamp attachment, is arranged at a lower region of the outer tube (2).

- 2. (Previously presented) Nozzle according to Claim 1, wherein a seal (14) is arranged within the lance body (9) between the receiving block (11) and the inner tube (3).
- 3. (Previously presented) Nozzle according to Claim 1, wherein a seal (16) is arranged between the outer tube (2) and the attachment device (8), as well as

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between the processing housing (15) and the attachment device (8).

- 4. (Previously presented) Nozzle according to Claim 1, wherein in a region of the mouth piece (1) of the nozzle, the inner tube (3) is exchangeably connected to a liquid insert (4) using a metal seal set (5).
- 5. (Currently amended) Nozzle for spraying liquid substances, dispersions, emulsions, or suspensions, for use in fluidized-bed granulating systems, comprising the following:
- the nozzle includes a cylindrical nozzle body and a nozzle mouth piece,
- the nozzle body includes a centrally arranged inner tube and an outer tube spaced apart from the inner tube,
- the inner tube is connected to a <u>liquid</u>, <u>dispersion</u>, <u>emulsion</u>, <u>or suspension</u>
   supply for a <u>substance</u> to be <u>sprayed</u>,
- the outer tube is connected to [[a]] an atomizing gas or to a carrier-gas stream supply for an atomizing gas or to a carrier gas stream and forms a lance base in a bottom region, and

the inner tube (3) is mounted in a receiving block (11), which is detachably attached in a tube (10) arranged in a fixed manner on a lower region of the lance base (9) and the inner tube (3) and any add-on parts (6) attached to the inner tube can be removed from the tube (10), and an attachment device (8), which connects the nozzle detachably to a processing housing (15) of the fluidized-bed granulating system, is arranged at a lower region of the outer tube (2), wherein in the region of the nozzle mouth piece (1), an add-on part (6) comprising swirl bodies, swirl vanes, or a guide for guiding compressed air and for guiding the inner tube (3) is arranged in an annular gap between the outer tube (2) and the liquid insert (4) or the inner tube (3).

- 6. (Cancelled).
- 7. (Previously presented) Nozzle according to Claim 1, wherein the outer tube (2) is detachably connected to the lance base (9).
- 8. (Previously presented) Nozzle according to Claim 1, wherein the outer tube (3) is provided in a region of connection to the lance base (9) with an expanding diameter.
- 9. (Previously presented) Nozzle according to Claim 1, wherein the receiving block (11) is connected to the tube (10) by a detachable connection.
- 10. (Currently amended) Nozzle for spraying liquid substances, dispersions, emulsions, or suspensions, for use in fluidized-bed granulating systems, comprising the following:
- the nozzle includes a cylindrical nozzle body and a nozzle mouth piece,
- the nozzle body includes a centrally arranged inner tube and an outer tube spaced apart from the inner tube,
- the inner tube is connected to a <u>liquid</u>, <u>dispersion</u>, <u>emulsion</u>, <u>or suspension</u>
   supply <del>for a substance to be sprayed</del>,
- the outer tube is connected to [[a]] an atomizing gas or to a carrier-gas supply for an atomizing gas or to a carrier-gas stream and forms a lance base in a bottom region, and

the inner tube (3) is mounted in a receiving block (11), which is detachably attached in a tube (10) arranged in a fixed manner on a lower region of the lance base (9) and the inner tube (3) and any add-on parts (6) attached to the inner tube can be removed from the tube (10), and an attachment device (8), which connects the

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nozzle detachably to a processing housing (15) of the fluidized-bed granulating

system, is arranged at a lower region of the outer tube (2), wherein the inner tube

(3) can be screwed into the receiving block (11) adjustable in a longitudinal axis

direction for setting at least one of a spraying angle or a spraying pattern, wherein

the seal (14) is provided for equalizing an adjustment path and comprises a metal

compensator or an elastic O-ring.

11. (Previously presented) Nozzle according to Claim 1, wherein the inner tube (3) is

welded to the receiving block (11).

12. (Previously presented) Nozzle according to Claim 7, wherein the outer tube is

detachably connected to the lance base with a tri-clamp attachment.

13. (Previously presented) Nozzle according to Claim 9, wherein the receiving

block is connected to the tube by a tri-clamp attachment.

14. (Previously presented) The nozzle according to claim 1, wherein a clamp (12)

detachably holds the receiving block (11) to the tube (10) so that release of the

clamp allows the inner tube (3) to be axially movable to and from an installed

position.

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